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FIGURE 2A

90
GCAGCCGCGG TGTCGCGA TCTCCCGG TTGCCCCG GCGTCAGA GAGGCGCG GCGCCGCTTG GTGACGCGA CCTQCAGCC
180
CARAGAGCGC TCCACTCGT GCGCCGCG GCGCCGCTA CTTTGCTA CCGCGCGT GAGGCTTAGA TGGCTCAGC GAGATCAGC
M R Q A K I N
270
GCTAAGCCA ACGAGGCG CTTCTGCG TCTCTCCA TGGTGACG CTCAGCGC CTGCTGAGA GCCTGGACA GCTGAGGCTC
A K A N E G R F C R S S S M A D R S S R L L E S L D Q L E L
360
AGGTTGAG CTTTGAGAG AGCAGCACT GCTGTTGAGC AGAGAGAGA ATCTCTTCTG GAAATGATCC ACAGTATCCA AAATAGCCAG
A U E A L R E A A T A U E Q E K E I L L E M I H S I Q N S Q
450
GACATGAGC AGATCAGTGA CGAGAGAGA GAGGATTA ATCTGACTG AATCGTTTG ATGGAGAGA CTCTCAGCGT TGAAGTGTCA
D M R Q I S D G E R E L N L T A N R L M Q R T L T U E U S
540
GTAGAACAA TTAGAACCC CCAGCAGCA GATCCCTTA AGCATGCCAC AAGGATTATT GATGAGGTTG TCAATAGTT TCTGATGAT
U E T I R N P Q Q Q Q E S L K H A T R I I D E U U N K F L D D
630
TTGGGAATG CCAAGAGTCA TTTATGTCG CTCTACAGT CATGTTTATC TGAGGTGCA CATGGCCAG TTGATCAGAA GTTTCATCC
L G N A K S H L M S L Y S A C S S E U P H Q P U D Q K F Q S
720
ATAGTATG GCTGTGCTCT TGAGATCAG AGAGAAATTA AGAGAGATT AGAGACTCTG CTTAGAAATA TTGAARACTC TGACAGGCGC
I U I G C A L E D Q K K I K R R L E T L L R N I E N S D K A
810
ATCAGCTAT TAGAGCATC TAAGGAGCT GATTCAGAA CTCTGCACA AATGCTGAA AGCAGATTCA ATAGTCTTC AACCTAGA
I K L L E H S K G A G S K T L Q Q N A E S R F N

900	GCATTACAC	AATACACAG	GTGTAAAT	GATAAATAC	TATTTAAT	GATACCTAGT	TCTTTGTTAG	GTATACCAC	TTAGTTGACA
990				CCATCAAGTA	TCTTCAGTT	TGTGAATAAC	AAACTAGCA	ATATTTAAT	TATCTATCTA
1080	CTGATAGTTG	TTTCAGATGA	GGAAATATT	ACTAGGATCT	AGCATATTTTC	ACTATTCTGT	GGATGAATAC	ATAGTTTGTG	GGGAAAACAA
1170	GGGATTTTTT	AGATTGAATT	CTTGTCTTGT	CTTTTTCCTG	TCTGGCATGG	AATCAGGCAAG	TCACCTTGGG	CATTTAGTTT	ACTAGGAATT
1179	ACCTTCAGCT	AGGGGCAAAA	AGCATGACTG	CTTTTTCCTG					
	CTTTACTGG								

FIGURE 3

GCGAGCTCC GATCCACAC CCGGGGCGG GCGACTTCT CTGACTGGA CCGAGTTT CTAGCGGCC AGTTGCTAC TCCTTTATC 90
 A E L R I Q P R A A A K F S G L O Q K F L A G Q L L P P F I
 TCCTCTTCC OCTCTGGCAG CCGAGGAGCT ATTCCAGAC ACTCCAGCC CTCTCTGGCC AGTCACCCC GCGCTTTAT TCATTAAGT 180
 S S F P S G S E E A I S R H F H P S L A T S P P P L I H K G
 GCGGGGCGC GCGTTCCCGG ACAGCTGGC GCGGAGAGG GCGCCAGCC GCGGGGCGG CCGAGACTC GCGGGGCGG GCGAGGCGC 270
 A R R R L P G H U G G G E G P T A A R R P E T R R P E P A P
 CCGACCGCG CCGAGCGGG CAGACCCCA CCGAGCTGA GCGCCCGAC CCGCTCGCC ATGATGCGG TGGGTTCGG CAGCGTGAC 360
 R T R A P A G R P Q P S H S R A T H S P H H Q V A S G H G O
 CCGACCTTT TCGGGGCGG ATGGGAGTC AAGATGACC CCGAGCGCG CTGGCCCTC TTCTGGGAC ACACAGCGG CCGACTACG 450
 R O P L P P G H E I K I O P Q T G H P F F U D H H S R T T T
 TGGAGCGCC CCGCGCTGCC CTCTGAGGC CCGAGGAGA CTCATCTC TGCCATGCC CCTTCCCGG AGGGCTCTAG CCGCGCGCT 540
 H K O P R U P S E G P K E T P S S A H G P S R E G S R L P P
 GCTAGGAGG GCGACCTGT GTACCCCGG CTCGAGCGG GCTACATTC CATCTCTGT CTCATGAGG GCGCTGAGA CCGCGAGGT 630
 A R E G H P U Y P Q L R P G Y I P I P U L H E G A E N R Q V
 CAGCTTTTC ATGTCTATC CCGCGCTGG ATGCGCGAT TCGAGCTGA GCGGCGCGG GCGGCTCTC AGAGTCCCA GTCAGCTCTG 720
 H P F H U Y P Q P G H Q R F R T E A R A A R A P Q R S Q S P L
 CCGGCGATC CAGAACCCAC TCAGCCAGT AACAGTGTG GAGGCTGGC AGCGGCGGG GCGCCCGCC CCGAGCTC CCGAGCGCT 810
 R G K P E T T Q P O K Q C G Q V A A R A A A Q P P A S H G P
 GAGCGTCC AGTCTCGAC TGCTCTGAC TGCTCTCTC CATCTCTC GCGAGCTG CCTTCTCG GCGAGGAGG CCGGCGAGT 900
 E R S Q S P A R S O C S S S S S S A S L P S S G R S S L G S
 CAGAGCTCC CCGGGGGTA CATCTCATC CCGGTATC ACAGCGAGA CGTTACCGG CCGAGCGCC AGCTCTCTT CCGAGAGCC 990
 H Q L P R G Y I S I P U I H E Q N U T A P A A Q P S F H K A
 CAGAGCGC ACTACCGC GCGAGGGGT GAGTACCGA CCGACCGCC TGTGTACC ACAGTCCAG GCGATGACT GCGCCCGGG 1080
 Q K T H Y P A Q R G E Y Q T H Q P U Y H K I Q G O D H E P R
 CCGTGGGG CCGCATCCC GTTCAGTCA TCTGTCCAG GTGATCGAG CCGGAGGGC TCACCGCGA GCGAGCGAC GCGACTCAC 1170
 P L R A A S P F R S S U Q G A S S R E G S P A R S S T P L H
 TCCCTCGC CCGTCCGTG GCGACCGTG CTCGAGCGC CTCGAGCGC CATGACCAT CAGAACTG CAGCTGTTT CCGAGCTGA 1260
 S P S P I R U H T U V D R P Q Q P H T H A E T A P U S Q P E
 AACACCGG AAGTAAGC AGGCCAGT GACCGAGC TCCTCTCG ACAGTCCCA ATTCAAGT TCCGAGGA GTTGATTCT 1350
 H K P E S K P G P U G P E L P P G H I P I Q U I R K E U D S
 AACCTGTT CCGAGAGC CCGACTCC TCTGAGAGG TAGAGTGAA AGTTCCCTT GCTCAGTTC CTGTCTCC TCCAGGCC 1440
 K P U S Q K P P P P S E K U E U K U P P A P U P C P P P S P

 GCGCTTCTG CTGTCCCTC TTCCCGAG AGTGTGCTA CAGAGAGG GCGAGCGCC AGCTGCCC CTGAGAGC TACCTCCA 1530
 G P S A U P S S P K S U A T E E R A R P S T A P A E A T P P
 AACAGGGG AGCGAGGC TCCCGAAA CATCAGAG TGCTGAAGT GAGCGATC CTGAGAGG TGAGGGGCT GAGCAGCT 1620
 K P G E A E A P P K H P G U L K U E A I L E K V Q G L E Q A
 GTAGACTT TTGAGGCA GAGACTGAC AAAAGTACC TGATGATCA AGAGTATTG ACAGAGAGC TGCTGGGCT GATTCAGT 1710
 U D K F E G K K T O K K Y L H I E E Y L T K E L L A L O S U
 GAGCGAGG GAGAGCGA TGTGCTCG GCGAGGAG AGGTGTGAG GAGGTTGAG ACATCTTG AAAACTTGA ACAGAGGCC 1800
 O P E G R A D U R Q A R R O G V A K U Q T I L E K L E Q K A
 ATTGATGCC CAGGTGAGT CAGGTCTAT GAGTCCAG CCGAGACT TGAAGAGT CAGCGACTG AGGCACTAT GAGATGGT 1890
 I O V P G Q U Q U Y E L Q P S H L E A D Q P L Q A I H E H G
 GCGTGGAG CAGAGAGG CAGAAATG OCTGAGATG CAGAGATC CCGACAGA ACGAGAGC CAGAGGCC ACAGAGGCC 1980
 A U A A O K G K K N A G H A E O P H T E T Q Q P E A T A A A
 ACTTAAAC CAGCAGAT GAGAGAGC OCTGTAGC CAGAGAGC GTAGCTCTG CCGTGTAGA GTGAGCTG GAGCGATG 2070
 T S H P S S H T O T P G H P A R P
 GTCTTTAG CATTTAGT CATGATTT CAGACTTT AGTGATTT GTTTTATTA GCTCTTGT ATGAGTACT TGGTGAGC 2160
 AACACTATA AGGCTATA AGGAGATG ATGCTTTCT TCATTTCT TACTTTTA CATTTAGA AGTCTTGT TGTGAGAA 2250
 GTTAAACC GTTCTTGT CTGAGGCT GTAGCTTG GAGCCCGAC CAGCTTTAG CTGTGTTG CAGTCTCT TTGAGCTCT 2340
 GAGTGGAG GATGATGG GATGATTA CCGTCAAT AATATATA CATTTAGA AATTTTCT ATTTATTA CATTTTCT 2430
 TTATCTAT AATTTATA CCGACTTA CAGAGTAA ATGTGAGG GAGCGATAG AATATCTA TTTGATTA CTTTATCT 2520
 AATTTT
 2520

FIGURE 4

90 ACGATATCTT GTAGACCCAA GAATTCGAG GCCAGAGTTT GAATTCCTAT ACAATGGAO COTATGCTCC AACATACCCC CCAAGGCCCTG
 180 GGGCAATATC TGCCTCATAC TCAGGGGCTT ATTATGACC TGGTTATCT CAGACCAGTT ACTCCACAGA AGTTCACAGT ACTTACCCTT
 270 CATCTGGCAA CAGCCCACT CCACTCTCTC GTTGGATCTA TCCCCAGCAG GACTGTCAAG ACTGAGACAC CCCCTCTTAA GGGGCAAGTT
 360 CCAGGATATC CGCCTTCACA GACCCTGGA ATGACCCTGC CCATTATCC M E M U I U U F H N H Q R
 450 ACTGTACGAC CACAAGAAAG ATGCTGCTGT TTCTCCTGCT GCTTATGGA TGGGTGCCC TTATCCCTGG CCTTCATCAG CGCCCTCAGC
 540 L Y D H K K D A W A S P Q A Y G M G G R Y P M P S S A P S A
 630 ACCACCCGGC ATCTCTCTACA TCACTGAAAG TACTTCACCA TGGCTAGCA GTGGCTCTCC CCAATCACCC CCTTCACCCC CAGTCCACCA
 720 P P G N L Y M T E S T S P W P S S G S P Q S P P S P P V Q Q
 810 GGGCAGGAT TCTTCATACC CCTATAGCCA ATCAGATCAA AGCATGACCC GGCACACTT TCCTTGCAGT GTCCATCAGT ACGAATCCTC
 900 P K D S S Y P Y S Q S D Q S M N R H N F P C S U H Q Y E S S
 990 GGGACAGTG AACATGATG ATTCAGATCT TTTGGATTCC CAAGTCCAGT ATAGTGCTGA GCCTCAGCTG TATGGTAATG CCACCAATGA
 1010 G T U N N D D S D L L D S Q U Q Y S A E P Q L Y G N A T S D
 CCATCCCAAC ATCAGATC AAGTAGCAG TCTTCTCTGAA GAATGTGTAC CTTGAGATGA AATGACTCCT CCGAGTATTA AAAAATCAT
 H P N N Q D Q S S S L P E E C U P S D E S T P P S I K I I
 ACATGTGCTG GAGAGGTCC AGTATCTTGA ACAGAGATA GAGGATTTG TAGGAAAAA GACAGACAAA GCATACTGGC TTCTGGAGAG
 H U L E K U Q Y L E Q E U E E F U G K K T D K A Y H L L E E
 AATGCTAACC AAGGACTTT TGGACTGGA TTCAGTTGAA ACTGGGGGCC AGGACTCTGT ACGGCAGGCC AGAAGAGAGG CTGTTTGTAA
 M L T K E L L E L D S U E T G G Q D S U A Q A R K E A U C K
 GATTCAGGCC ATATTGGAA
 I Q A I L E

FIGURE 5

90 GAGAAATATAA AATGAACTT CTCARACAC AAACCCCTTC TGAATTGTAC CTGAAGTCCA AARCAATTT GCAGGGTTTA ATTOGACAGT
 180 E I K N E L L Q A Q N P S E L Y L S S K T E L Q G L I Q Q L
 TGGATGAGGT AGTNTTGA AAAAACCCT GCATCCGGA AGCAGGAGA AGAGCAGTGA TCGAGGTGCA AACTCTGATC ACATATATG
 270 D E U S X E K N P C I R E A R R A U I E U Q T L I T Y I D
 ACTTGAGGA GGCCTTGAG AARAGAGC TGTTCCTG TGAGGAGCAC CCATCCCAT AAGCCGCTG GACGTCCTT GGAACCTGT
 360 L K E A L E K R K L F A C E E H P S H K A U W N U L G N L S
 CTGAGATCCA GCGAGAGTT CTTTCATTG ATGAAATCG AACCGATAAG AACTACATCC GCGTGAAGA GCTGCTCACC AAGCAGCTGC
 450 E I Q G E U L S F D Q N R T D K N Y I R L E E L L T K Q L L
 TAGCCCTGA TGCTGTTGAT CCGCAGGAG AAGAGAGTG TAGGCTGCC AGGAAACAG CTGTGAGGCT TCGCAGGAT ATTCTCAGCT
 540 A L D A U D P Q G E E K C K A A R K Q A U A L A Q N I L S Y
 ATCTGACCT GAATCTGAT GAATGGAGT ACTGAATAC CAGAGATCTC ACTTTGATA CTGTTTGA CTTTATATGT GCTTCTATGT
 630 L D L K S D E W E Y
 ATGAGAGCT TTCAGTTTAT TGATTATAC GTGCATATTT CAGTCTCAGT ATTTATGATT GAAGCAATT CTATTCAGTA TCTGCTGCTT
 689 TTGATGTTGC AAGACAATA TCATTACAGC ACOTTAACCT TTCCATTGG ATCAAAAA

FIGURE 6A

ATGTCCTTCCGCCTCTTCGTTGAAATATTTCACTTTCTTTTCCAGCTTTTCCCCATCTCGACCT
GCTTTGGTTTTT
CGAGAAAACACGTTCCAAATCAGCGACATCTCTCAAATTGAGATCATAGGCTTTTGAAGATTG
CTCAAATTATG
CTTCTCATATTGCATGAGCATTTTGAAGCCCGCGTCATCAACCAAAGCATTTTTCACCCCATCA
CAATGATTTTAT CATTTCCTTTAAAATT

FIGURE 6B

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MKVNVCSSV	QTTIDILEEN	QGEDESILT	TL	GQLRDRIATD	NDVDVETMKL	50
LHRGKFLOGA	DDVSLSTLNF	KENDKIIVMG	GKNALVDDAG	FKMLMQYEKH	100	
NLSNLQKAYD	LNLRDVADLE	RGFLEKPKQV	EMGKKLEKKV	KYFNEEAERH	150	
LETLDGMNII	TETTPENQAK	RNREKRKTLV	NGIQTLLNQ	N	200	
QSVLNGDIPE				DALLRRLQEY	210	

FIGURE 7A

ATGCCAGTCG	TGAACATACC	AATCAAAATA	CTTGGTCAGA	ATCAATCACA	50
TAGTCGAAGT	AACTCCTCGT	CTTCTGTTGA	CAACGATCGA	AATCAACCAC	100
CACAGCAGCC	ACCTCAACCG	CAACCACAAC	AGCAATCTCA	GCAACAATAC	150
CAGCAGGCTC	CAAACGTGAA	TACCAATATG	CATCATTCCA	ACGGATTCTC	200
ACCTAACTTC	CCATCTCGTA	GTCCATTATC	GGACTTTCCC	AGTTTTTCAT	250
CTGGGTTCCC	AAACGATTCT	GAATGGTCTT	CGAATTTCCC	GTCGTTTCCA	300
AATTTCCCAA	GTGGATTCTC	AAATGGAAGT	TCTAATTTCC	CTGATTTTCC	350
AAGATTCCGA	AGAGATGGAG	GACTATCGCC	AAACCCACCG	ATGCAAGGAT	400
ACAGGAGAAG	TCCAACACCA	ACATCAACTC	AATCTCCAAC	TTCTACATTA	450
AGACGCAACT	CTCAGCAGAA	TCAAGCTCCT	CCACAATATT	CTCAGCAACA	500
ACCACAACAA	GCTCAACAAC	GTCAGACAAC	TCCTCCGTCA	ACAAAAGCTT	550
CATCTCGACC	ACCATCTCGT	ACTCGTGAAC	CAAAGGAACC	TGAGGTACCC	600
GAGAGACCAG	CAGTTATTCC	ATTGCCATAT	GAGAAGAAGG	AGAAACCACT	650
GGAGAAGAAA	GGTAGTCGTG	ATTCTGGAAA	GGGTGATGAG	AACCTTGAAG	700
AGAACATTGC	CAAGATCACG	ATCGGAAAGA	ATAATTGCGA	GTTATGTCCG	750
GAACAAGAAA	CGGACGGCGA	CCCATCTCCA	CTAACCTCCC	CAATCACCGA	800
AGGAAAGCCA	AAGAGAGGAA	AGAAACTTCA	ACGTAATCAA	AGTGTTGTTG	850
ATTTCAATGC	CAAGACAATT	GTTACTTTGG	ATAAAATTGA	ATTACAAGTT	900
GAGCAGTTGA	GAAAAAAGC	TGCTGAACTC	GAAATGGAAA	AAGAGCAAAT	950
TCTTCGTTCT	CTAGGAGAAA	TCAGTGTTCA	TAACTGCATG	TTCAAACCTG	1000
AAGAATGTGA	TCGTGAAGAG	ATTGAAGCAA	TCACTGACCG	ATTGACAAAA	1050
AGAACAAAGA	CAGTTCAAGT	TGTTGTGCGA	ACTCCACGAA	ATGAAGAACA	1100
GAAAAAAGCA	CTGGAAGATG	CAACTTTGAT	GATCGATGAA	GTCGGAGAAA	1150
TGATGCATTG	GAATATTGAA	AAGGCTAAGC	TGTGCCTACA	AACCTACATG	1200
AACGCCTGTT	CGTACGAAGA	AACTGCTGGA	GCCACCTGCC	AAAACCTTCT	1250
GAAGATCATA	ATTCAGTGCG	CTGCTGATGA	TCAGAAACGC	ATCAAGCGTC	1300
GTCTGGAAAA	TCTGATGTCT	CAAATTGAGA	ATGCTGAGAG	AACGAAAGCA	1350
GATTTGATGG	ATGATCAAAG	CGAATAG			1377

FIGURE 7B

MPVVNIPIKI	LGQNQSHSRS	NSSSSVDNDR	NQPPQQPPQP	QPQQQSQQQY	50
QQAPNVNTNM	HHSNGFSPNF	PSRSPIDFP	SFSSGFPNDS	EWSSNFPSFP	100
NFPSGFSNGS	SNFPDFPRFG	RDGGLSPNPP	MQGYRRSPTP	TSTQSPTSTL	150
RRNSQQNQAP	PQYSQQQPQQ	AQQRQTTPPS	TKASSRPPSR	TREPKEPEVP	200
ERPAVIPLPY	EKKEKPLEKK	GSRDSGKGDE	NLEENIAKIT	IGKNNCELCP	250
EQETDGDPSF	LTSPITEGKP	KRGKKLQRNQ	SVVDFNAKTI	VTLDKIELQV	300
EQLRKAAEL	EMEKEQILRS	LGEISVHNCM	FKLEECDREE	IEAITDRLTK	350
RTKTVQVVVE	TPRNEEQKKA	LEDATLMIDE	VGEMMHSNIE	KAKLCLOTYM	400
NACSYEETAG	ATCQNFLKII	IQCAADDQKR	IKRRLLENLMS	QIENAERTKA	450
DLMDDQSE					458

FIGURE 8A

ATGTCAGAAA	AGACTAGCAC	AGTTACAATA	CACTATGGAA	ATCAGCGATT	50
TCCGGTAGCA	GTCAATCTAA	ATGAGACGTT	AAGTGAAGTG	ATTGATGATT	100
TACTTGAAAC	GACTGAGATT	TCTGAGAAGA	AAGTCAAGCT	TTTTTACGCT	150
GGCAAGCGTT	TAAAAGACAA	AAAAGCCTCG	TTATCAAAAT	TGGGTTTAAA	200
AAATCATAGT	AAAATTCTAT	GTATAAGACC	ACATAAGCAA	CAACGAGGTT	250
CCAAGGAAAA	AGACACGGTT	GAGCCCGCTC	CGAAAGCGGA	AGCGGAGAAT	300
CCTGTATTTT	CGCGTATTTT	TGGAGAAATA	AAAGCCATCG	ATCAGTATGT	350
TGACAAAGAA	CTTTCCCCCA	TGTACGACAA	TTACGTAAAT	AAACCGTCGA	400
ACGATCCAAA	GCAGAAAAAC	AAACAGAAAC	TAATGATAAG	TGAACTACTT	450
TTACAACAGC	TTTTAAAATT	GGATGGAGTT	GACGTACTGG	GCAGCGAGAA	500
ATTGCGTTTT	GAACGGAAGC	AACTTGTTTC	TAAGATCCAA	AAAATGTTGG	550
ATCACGTTGA	CCAAACAAGC	CAAGAAGTGG	CCGCATAG		588

FIGURE 8B

MSEKTSTVTI	HYGNQRFPA	VNLNETLSEL	IDDLLLETTEI	SEKKVKLFYA	50
GKRLKDKKAS	LSKLGLKNHS	KILCIRPHKQ	QRGSKEKDTV	EPAPKAEAEN	100
PVFSRISGEI	KAIDQYVDKE	LSPMYDNYVN	KPSNDPKOKN	KQKLMISELL	150
LQQLLKLDGV	DVLGSEKLRF	ERKQLVSKIQ	KMLDHVDQTS	QEVAA	195

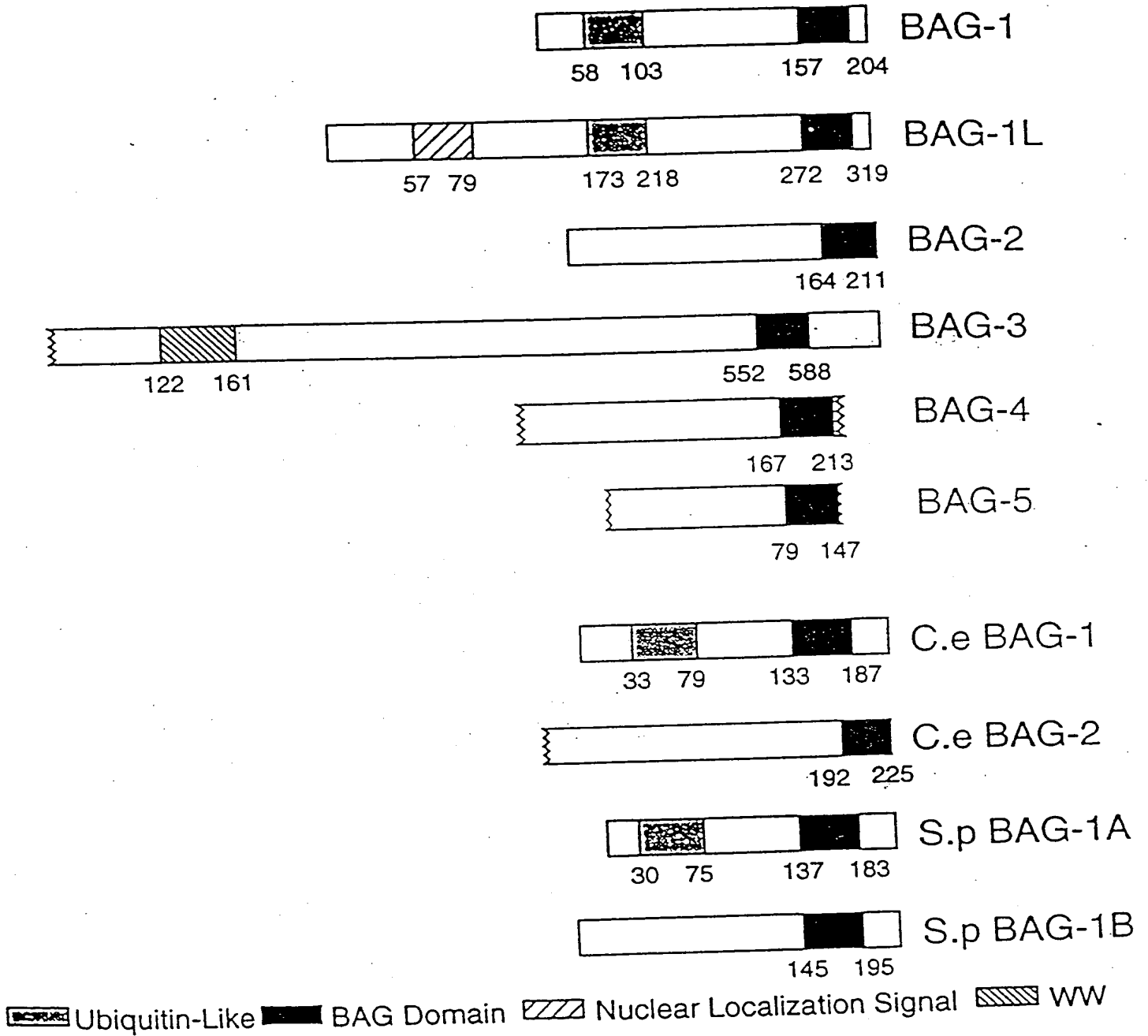
FIGURE 9A

ATGTCTTTTT	TTACCCAGTT	GTGTTCTATG	GATAAAAAAT	ATTGGATCTC	50
TCTAGCTGTA	TTGTCAGTTA	CTGTTTTGAT	TAGCGCATT	TTGAAAAAGA	100
GAGCTACTGA	AACCGAAGAT	ATTGTCGTTG	TTCATTACGA	TGGCGAAAAG	150
TTGAATTTTG	TGTTGCGACA	ACCAAGGCTG	AATATGGTTT	CTTACACTAG	200
TTTTCTTCGT	CGCGTGTGCA	ACGCATTTTC	AGTAATGCC	GACAAAGCGT	250
CTCTCAAGTT	AAACGGGGTG	ACCCTCAAGG	ATGGTTCACT	TTCCGACCAA	300
AATGTGCAAA	ATGGAAGTGA	ATTAGAGCTC	GAATTACCCA	AACTGAGCCC	350
GGCAATGCAA	CAAATTGAAG	CATATATAGA	TGAGCTTCAA	CAGGATCTCG	400
TCCCTAAAAT	TGAAGCCTTC	TGCCAATCGT	CTCCCGCTTC	GGCACAAGAT	450
GTTCAAGATT	TGCATACACG	CCTTAGTGAA	ACATTGTTGG	CTAGGATGAT	500
AAAATTAGAT	GCTGTTAATG	TTGAAGACGA	CCCAGAAGCT	CGTCTTAAAA	550
GAAAAGAAGC	TATTCGTTTA	TCTCAACAAT	ATTTGAGTAA	ACTAGATTCC	600
ACCAAGAATC	AAAACAAATG	A			621

FIGURE 9B

MSFFTQLCSM	DKKYWISLAV	LSVTVLISAL	LKKRATETED	IVVVHYDGEK	50
LNFVLRQPRL	NMVSYSFRL	RVCNAFSVMP	DKASLKLVGV	TLKDGSLSDQ	100
NVQNGSELEL	ELPKLSPAMQ	QIEAYIDELQ	QDLVPKIEAF	CQSSPASAQD	150
VQDLHTRLSE	TLLARMIKLD	AVNVEDDPEA	RLKRKEAIRL	SQQYLSKLDS	200
TKNQNK					206

FIGURE 10A



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[illegible]

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FIGURE 11

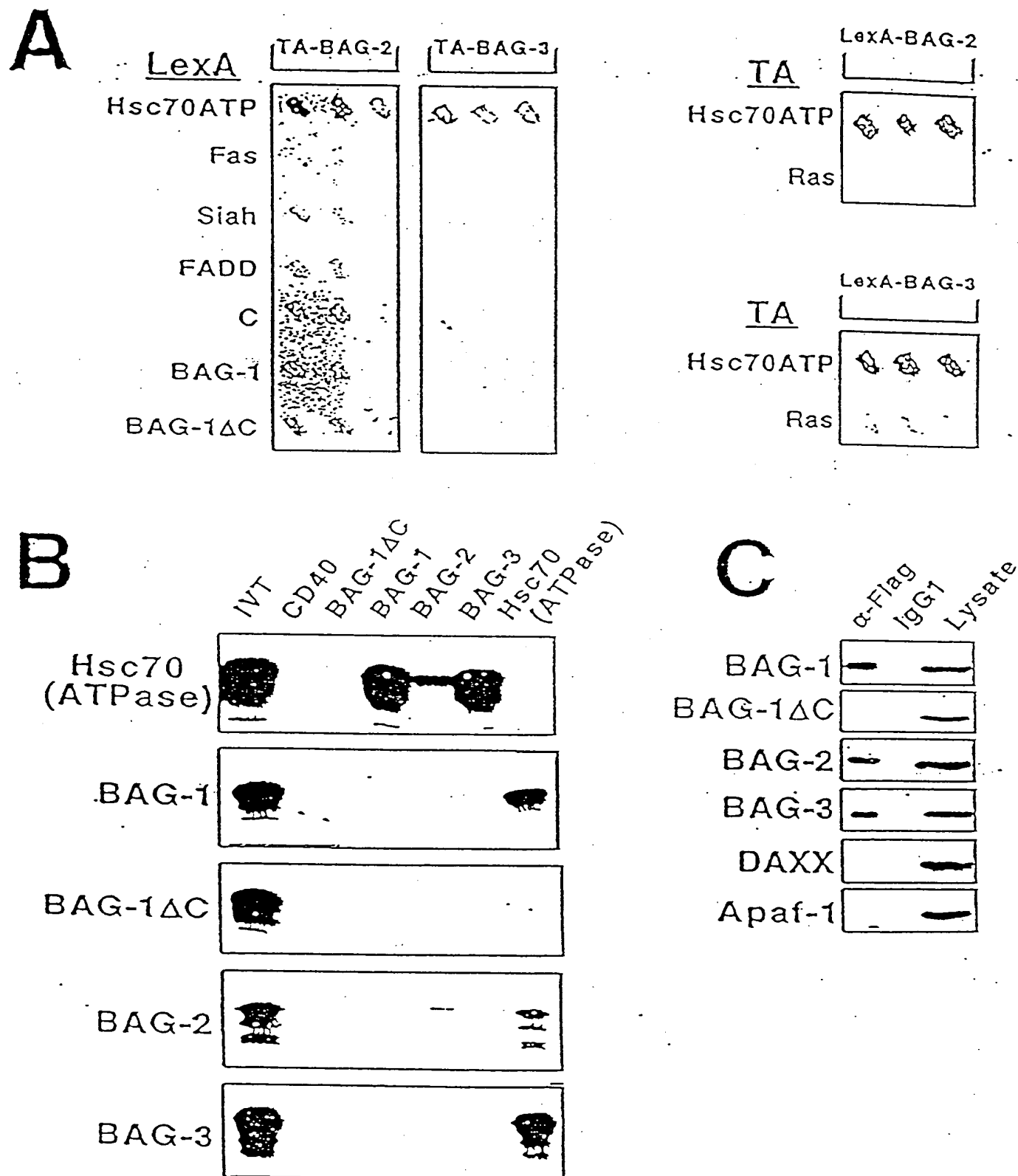
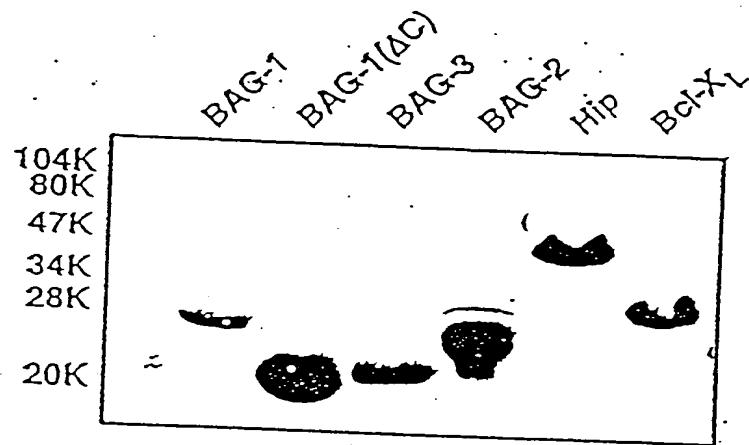


FIGURE 12

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FIGURE 13

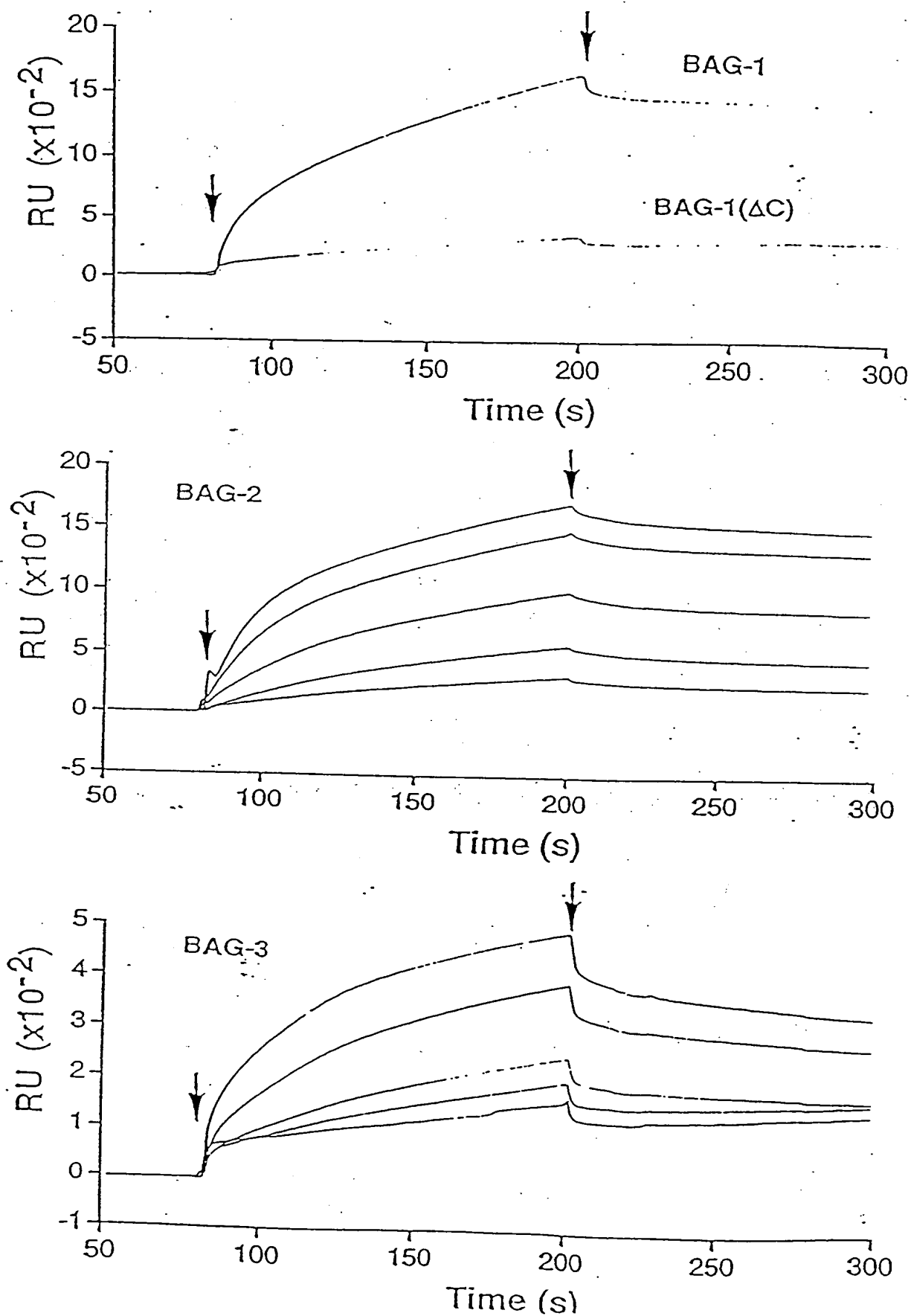


FIGURE 14

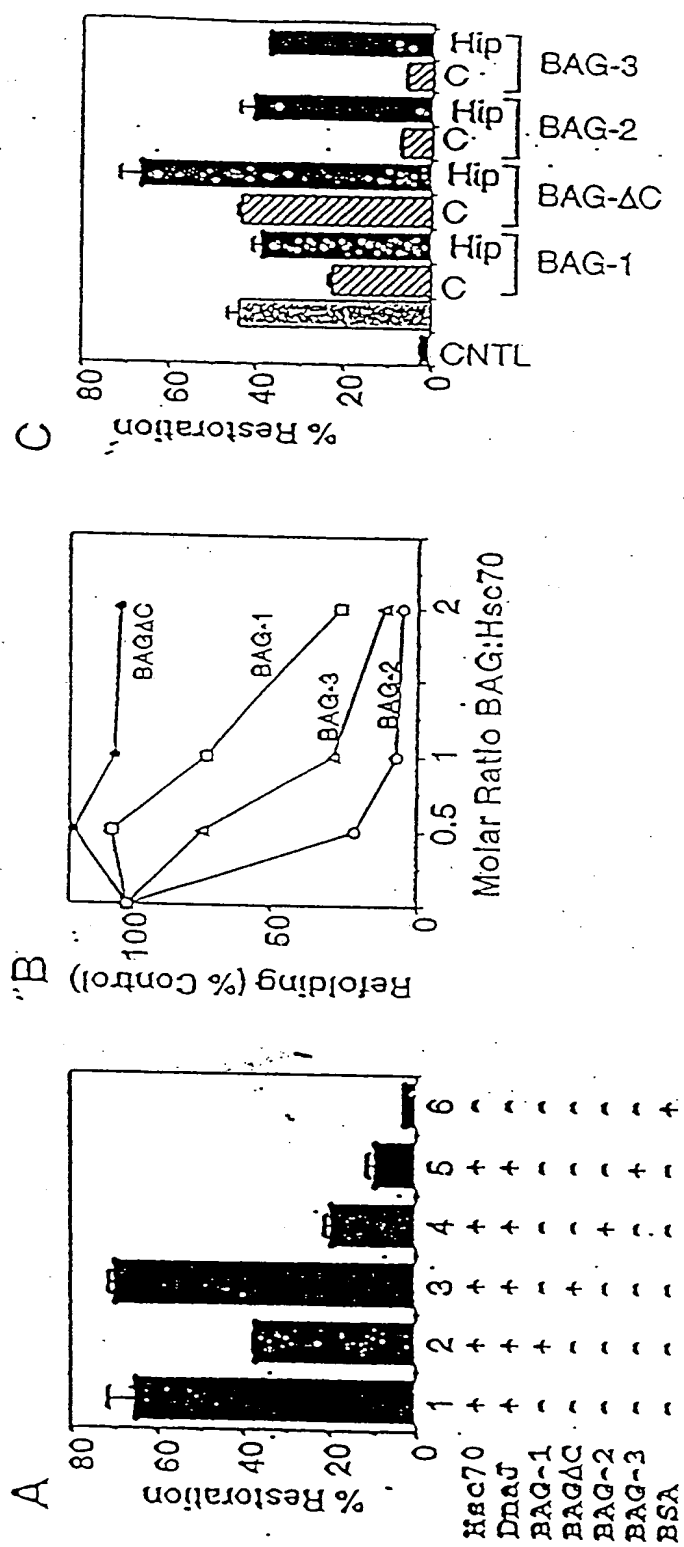


FIGURE 15A

50 GCGGAGCTCC GCATCCAAACC CCGGGCCGCG GCGAACTTCT CTGGA CTGGA
 100 CCAGAAATTT CTAGCCGGCC AGTTGCTACC TCCCTTTATC TCCTCCTTCC
 150 CCTCTGGCAG CGAGGAGGCT ATTTCCAGAC ACTTCCACCC CTCTCTGGCC
 200 ACGTACCCCC CGCCTTTAAT TCATAAAGGT GCCCGGGGCC GGCCTCCCGG
 250 ACAGTGGC GCGGAGAGG GGCCACGGC GCGGGCCCGG CCAGAGACTC
 300 GCGGCCCGGA GCCAGCGCC CGCACCCGG CCCCAGCGG CAGACCCCAA
 350 CCCAGCATGA GCGCCGCCAC CCACTCGCCC ATGATGCAGG TGGCGTCCGG
 400 CAACGGTGAC CGGACCCCTT TGCCCCCGG ATGGGAGATC AAGATCGACC
 450 CGCAGACCGG CTGGCCCTTC TTGCTGAAC ACAACAGCCG CACCACTACG
 500 TGGAAACGACC CCGCGGTGCC CTCTGAGGGC CCGAAGGAGA CTCCATCCTC
 550 TGCCAATGGC CCTTCCCGG AGGGCTCTAG GCTGCCGCT GCTAGGGAAG
 600 GCCACCCTGT GTACCCCCAG CTCGACCCAG GCTACATTCC CATTCCTGTG
 650 CTCCATGAAG GCGCTGAGAA CCGGCAGGTG CACCCCTTCC ATGTCTATCC
 700 CCAGCCTGGG ATGCAGCGAT TCCGAACCTGA GCGGGCAGCA GCGGCTCCTC
 750 AGAGGTCCCA GTCACCTCTG CCGGGCATGC CAGAAACCAC TCAGCCAGAT
 800 AAACAGTGTG GACAGGTGGC AGCGGCGGCG GCAGCCACGC CCCCAGCCTC
 850 CCACGGACCT GAGCGGTCCC AGTCTCCAGC TGCCCTCTGAC TGCTCATCCT
 900 CATCCTCCTC GGCCAGCCTG CCTTCCTCCG GCAGGAGCAG CCTGGGCGAGT
 950 CACCAGCTCC CGCGGGGTA CATCTCCATT CCGGTGATAC ACGAGCAGAA
 1000 CGTTACCCGG CCAGCAGCCC AGCCCTCCTT CCACAAAGCC CAGAAAGCGC
 1050 ACTACCCAGC GCAGAGGGGT GAGTACCAGA CCCACCAGCC TGTGTACCAC
 1100 AAGATCCAGG GGGATGACTG GGAGCCCCGG CCCCTGCGGG CGGCATCCCC
 1150 GTTCAGGTCA TCTGTCCAGG GTGCATCGAG CCGGGAGGGC TCACCAGCCA
 1200 GGAGCAGCAC GCCACTCCAC TCCCCCTCGC CCATCCGTGT GCACACCGTG
 1250 GTCGACAGGC CTCAGCAGCC CATGACCCAT CGAGAACTG CACCTGTTTC
 1300 CCAGCCTGAA AACAAACCAG AAAGTAAGCC AGGCCAGTT GGACCAGAAC
 1350 TCCCTCCTGG ACACATCCCA ATTCAAAGTGA TCCGCAAGA GGTGGATTCT

FIGURE 15A

AAACCTGTTT	1400
AGTTCCTCCCT	1450
CTGTCCCTC	1500
AGCACTGCC	1550
TCCCCAAA	1600
TGCAGGGGCT	1650
AAAAAGTACC	1700
GGATTCAGTG	1750
ACGGTGTCAG	1800
ATTGATGTCC	1850
TGAAGCAGAT	1900
CAGACAAAGG	1950
ACCCAGCAGC	2000
GACAGACACC	2050
ATCAGACTCG	2100
TTCAGAGACT	2150
ACTTGGGTGG	2200
CTTTTCTTCT	2250
TGAGAAAGTT	2300
CCCCACCACC	2350
TGGAGGGGTA	2400
TATCAGAAAT	2450
AAATACCTG	2500
TCTGTATGTT	2534

FIGURE 15B

MSAATHSPMMQVASNGGDRD PLPPGWEIKI DPQTGWPFV DHNSRTTTWN 50
DPRVSEGPKEITPSSANGPS REGSRLPPAR EGHVPYQLR PGYIPVLH 100
EGAENRQVHP FHVYPQGMQ RFRTEAAAA PQRSQSPLRG MPETTQPDQK 150
CGQVAAAAA QPPASHGPER SQSPAASDCS SSSSSASLPS SGRSSLGSHQ 200
LPRGYISIPV IHEQNVTRPA AQPSTFHKAK THYPAQRGEY QTHQPVYHKI 250
QGDDWEPRPL RAASPFRRSS QGASSREGSP ARSSTPLHSP SPIRVHTVVD 300
RPQQPMTHRE TAPVSQPENK PESKPGVGP ELPPGHIPIQ VIRKEVDSKP 350
VSQKPPPPSE KVEVKVPPAP VPCPPSPGP SAVPSSPKSV ATEERAAPST 400
APAEATPPKP GEAEAPPKHP GVLKVEAILE KVQGLEQAVD NFEGKKTDDK 450
YLMIEEYLTKE LLALDSVDP EGRADVRRQAR RDGVRKVQTI LEKLEQKAI 500
VPGQVQVYEL QPSNLEADQP LQAIMEMGAV AADKGKKNAG NAEDPHTTETQ 550
QPEATAAATS NPSSMTDTPG NPAAP 575

FIGURE 15C

[illegible]

FIGURE 16A

50 CCGTGGAGC GGGGCGGGAA GCGCTTCAGG GCAGCGGATC CCATGTGCGC
 100 CCTGAGGCG TCGGGCTACG GCCCAGTGA CGGTCCGTCC TACGGCCGCT
 150 ACTACGGGC TGGGGGTGA GATGTGCGG TACACCCACC TCCACCCCTTA
 200 TATCCTCTT GCGCTGAACC TCCCAGCCT CCCATTTCTT GCGGGGTGCG
 250 CGGGGCGGC CCGGCGGAGA CCACTGGCT GGGAGAAGGC GGAGAGGCG
 300 ATGGCTACTA TCCCTCGGA GCGCCTGGC CAGAGCCTGG TCGAGCCGGA
 350 GGAAGCCACC AGGAGCAGCC ACCATATCCT AGCTACAATT CTAACATATTG
 400 GAATTCTACT GCGAGATCTA GGGCTCCTTA CCCAAGTACA TATCCTGTAA
 450 GACCAGAATT GCAAGGCCAG AGTTTGAATT CTTATACAAA TGGAGCGTAT
 500 GGTCCAACAT ACCCCCAGG CCCTGGGGA AATACTGCCT CATACTCAGG
 550 GGCTTATTAT GCACCTGGT ATACTCAGAC CAGTTACTCC ACAGAAGTTC
 600 CAAGTACTTA CCGTTCATCT GGCAACAGCC CAACTCCAGT CTCCTGTTGG
 650 ATCTATCCCC AGCAGGACTG TCAGACTGAA GCACCCCTC TTAGGGGCA
 700 GGTCCAGGA TATCCGCCCT CACAGAACCC TGAATGACC CTGCCCCATT
 750 ATCCTTATGG AGATGGTAAT CGTAGTGTT CACAATCAGG ACCGACTGTA
 800 CGACCACAAG AAGATGCGTG GGCTTCTCCT GGTGCTTATG GAATGGGTGG
 850 CCGTTATCCC TGGCCTTCAT CAGCGCCCTC AGCACCAACC GGCAATCTCT
 900 ACATGACTGA AAGTACTTCA CCATGGCCTA GCAGTGGCTC TCCCCAGTCA
 950 CCCCCTTAC CCCCAGTCCA GCAGCCCAAG GATTCTTCAT ACCCCTATAG
 1000 CCAATCAGAT CAAAGCATGA ACCGGCACA CTTTCCTTGC AGTGTCCTATC
 1050 AGTACGAATC CTCGGGGACA GTGATCAATG AAGATTGAGA TCTTTTGGAT
 1100 TCCCAAGTCC AGTATAGTGC TGAGCCTCAG CTGTATGGTA ATGCCACCCAG
 1150 TGACCATCCC AACAAATCAAG ATCAAAGTAG CAGTCTTCTT GAAGAAATGTG
 1200 TACCTTCAGA TGAAGTACT CCTCCGAGTA TTAATAAAT CATACTGTG
 1250 CTGGAGAAGG TCCAGTATCT TGAACAAGAA GTAGAAGAAT TTGTAGGAAA
 1300 AAAGACAGAC AAAGCATACT GGCTTCTGGA AGAAATGCTA ACCAAGGAAC

FIGURE 16A

TTTTGGAAC TGGATTCAGTT GAAACTGGGG GCCAGGACTC TGTACGGCAG 1350
GCCAGAAAAG AGGCTGTTTG TAAGATTCAG GCCATACTGG AAAAAATTAGA 1400
AAAAAAAGGA TTATGAAAGG ATTTAGAACA AAGTGGAAGC CTGTTACTAA 1450
CTTGACCAA GAACACTTGA TTAGGTTAAT TACCCTCTTT TTGAAATGCC 1500
TGTTGATGAC AAGAAGCAAT ACATTCACG TTTTCCTTTG ATTTTATACT 1550
TGAAAAACTG GCAAAGGAAT GGAAGAATAT TTAGTCATG AAGTTGTTTT 1600
CAGTTTTCAGA CGAATGAATG TAATAGGAAA CTATGGAGTT ACCAATATTG 1650
CCAAGTAGAC TCACTCCTTA AAAAATTTAT GGATATCTAC AAGCTGCTTA 1700
TTACCAGCAG GAGGGAACA CACTTCACAC AACAGGCTTA TCAGAAACCT 1750
ACCAGATGAA ACTGGATATA ATTTGAGACA AACAGGATGT GTTTTTTTAA 1800
ACATCTGGAT ATCTTGTCAC ATTTTGTGAC ATTGTGACTG CTTTCAACAT 1850
ATACTTCATG TGTAAATTATA GCTTAGACTT TAGCCTTCTT GGACTTCTGT 1900
TTTGTTTTGT TATTTGCAGT TTACAAATAT AGTATTATTC TCTAAAAA 1950
AAAAA AAAA 1966

MSALRRSGYGPSYGRYYGPGGDDVPHPPPLYPLRPEPPQPPISWRVRGGGPAETTWLGEAGGGDGYYPGGAWP
EPGRAGGSHQEQPPYPSYNSNWNSTARSRAPYSTYPVRPELQQSLNSYTNNGAYGPTYPPGPGANTASYSGAYYAPGY
TQTSYSTVPSTYRSSGNSPTPVSRWYPQQDQTEAPPLRGQVPGYPPSQNPQMTLPHYPYGDGNRSVPQSGPTVRPQE
DAWASPGAYGMGGRYWPSSAPSPGPNLYMTESTSPWPSSGSPQSPPPVQQPKDSSYPYSSDQSMNRHNFPCSVHQ
YESSGTVINEDSDLLDSQVQYSAEPQLYGNATSDHPNNQDQSSSLPEECVPSDESTPPSIKKIIHMLEKVQYLEQEVEEF
VGKKTDKAYWILLEMLTKELLEDSVETGGQDSVRQARKEAVCKIQAILKLEKKGGL

[illegible]

FIGURE 17A

50 CCCCCCCCCC CCNGAAGACG CCGGAGCGG CTGCTGCAGC
 100 CAGTAGCGG CCCTTCACCG GCTGCCCCGC TCAGACCTAG TCGGAGGGG
 150 TCGAGGCAT GCAGCTGGG GCCAGCTCC GGTGCCGCAC CCGTAAAGG
 200 GCTGATCTC CACCTCGCCA CCTAGCCAC GGGACGCCAA GACCGCATCC
 250 AATTCAGACT TCTTTTGGTG CTTGTGAAAC TGAACACAAC AAAAGTATGG
 300 ATATGGGAAA CCAACATCCT TCTATTAGTA GGCTTCAGGA ATCCAAAAG
 350 GAAGTAAAA GTGTAGAACA GCAAGTTATC GGCTTCAGTG GTCTGTCAGA
 400 TGACAAGAAT TACAAGAAAC TGGAGAGGAT TCTAACAAAA CAGCTTTTGG
 450 AAATAGACTC TGATAGACT GAAGGAAAAG GAGATATTCA GCAAGCTAGG
 500 AAGCGGGCAG CACAGGAGAC AGAAGTCTT CTCAAAGAGT TGGAGCAGAA
 550 TGCAAAACCAC CCACACCGGA TTGAATACA GAACTTTT GAGGAAGCCC
 600 AGTCCCTCGT GAGAGAGAAA ATTGTGCCAT TTTATAATGG AGGCAACTGC
 650 GTAACGTATG AGTTTGAAGA AGGCATCCAA GATATCATTC TGAGGCTGAC
 700 ACATGTTAAA ACTGGAGGAA AAATCTCCTT GCGGAAAGCA AGGTATCACA
 750 CTTTAAACCA AATCTGTGCG GTGCAAGAGA TAATCGAAGA CTGCATGAAA
 800 AAGCAGCCTT CCCTGCCGCT TTCGAGGAT GCACATCCTT CCGTTGCCAA
 850 AATCAACTTC GTGATGTGTG AGGTGAACAA GGCCCGAGGG GTCCTGATTG
 900 CACTTCTGAT GGGTGTGAAC AACATGAGA CCTGCAGGCA CTTATCCTGT
 950 GTGCTCTCGG GGCTGATCGC TGACCTGGAT GCTCTAGATG TGTGCGGCGG
 1000 GACAGAAATC AGAAATTATC GGAGGGAGGT AGTAGAAGAT ATCAACAAAT
 1050 TATTGAAATA TCTGGATTTG GAAGAGGAAG CAGACACAAC TAAAGCATTT
 1100 GACCTGAGAC AGAATCATTC CATTTTAAAA ATAGAAAAGG TCCTCAAGAG
 1150 AATGAGAGAA ATAAAAAATG AACTTCTCCA AGCACAAAAC CCTTCTGAAT
 1200 TGTACCTGAG CTCCAAAACA GAATTGCAGG GTTTAATTGG ACAGTTGGAT
 1250 GAGGTAAGTC TTGAAAAAAA CCCCTGCATC CGGGAAGCCA GGAGAAGAGC
 1300 AGTGATCGAG GTGCAAACTC TGATCACATA TATTGACTTG AAGGAGGCC

FIGURE 17A

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TTGAGAAAG AAGCTGTTT GCTTGTGAGG AGCACCCATC CCATAAGCC 1350
GTCTGGAACG TCCTTGAAA CTTGTCTGAG ATCCAGGGAG AAGTTCTTTC 1400
ATTTGATGGA AATCGAACCG ATAAGAACTA CATCCGGCTG GAAGAGCTGC 1450
TCACCAAGCA GCTGCTAGCC CTGGATGCTG TTGATCCGCA GGGAGAAAGAG 1500
AAGTGTAAGG CTGCCAGGAA ACAAGCTGTG AGGCTTGCGC AGAATATTCT 1550
CAGCTATCTC GACCTGAAAT CTGATGAATG GGAGTACTGA AATACCAGAG 1600
ATCTCACTTT TGATACTGTT TTGCACITTC TATGTGCTTC TATGTATAGA 1650
GAGCTTTCAG TTCATTGATT TATACGTGCA TATTTCACTC TCAGTATTTA 1700
TGATTGAAGC AATTCTATT CAGTATCTGC TGCCTTTTGT GTTGCAAGAC 1750
AAATATCATT ACAGCACGTT AACTTTTCCA TTCGGATCAT TATCTGTATG 1800
ATGTGGTGTG GTTTGTTTGG TTTGTCCCTT TTTTGGCTT TTTAATCAGA 1850
AAACAAATA GAGGCAGCTT TTGTAGATTT TAAATGGGT GTGCAAGCAT 1900
TAAATGCAG GTCCTTTCAGA ATCTAGAACT AGGCATAACC TTACATAATA 1950
CTAGGAAAT TATGAGAAAG GGGAAATTT TGGTTAAATA AGAGTAAAGT 2000
TCAACACAA GCAGTACATG TTCTGTTTCA TTATGCTCGA TAGAAGGCTT 2050
TTTTTCACT TATAAGGCCT GATTGGTCCT ACCCAGCTTA ACGGGGTGGG 2100
GTTTTTTTGT TTGTTCAAGC AGTCTGTTCT TTTGTAAACA TTTTTAGTTG 2150
GAAAAACAGC ATCTGCATTT TCCCATCCT CTACGTTTTA GAGAGGAATC 2200
TTGTTTTTGT GTGCAACATA AGAAAATTAT GAAAACTAAT AGCCAAAAAA 2250
CCTTTGAGAT TGCATTAAAG AGAAGGGATA AAGGACCAGC AATAATACCT 2300
TGTAAGTTGC TTTTGTTTGT AAAATCTGAG CTTATAGTTT TCCTTAGTGA 2350
GTAAATTCAT AAGGATGGGA ACATTTAAAT TAAGTTAATG GGCCTTTAAA 2400
AAAAAAAAG GAAACACTCA TACCTGTAGT TGGAGGATGA ATACTGGAGA 2450
CGGGTTACCA ATGTCAGGTT ATACTAAAC TAAATCAGAA AGTCTGAATG 2500
TAGCACATAA TGGTTCTCTT CTGTTGTCCA AGGCTGTAAA ATGGACAGCC 2550
TTGTCACACC TCCCCGGTGC TGTTTTACAA CGTGAGGGTA GACGCTGTCA 2600

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FIGURE 17A

GTAACCCAGA GGGACCAAGG CTTCTAGGT TTTCTAGGCA GTCAGCTGTT 2650
 AACCACTCAC TTAGTAAATG TCATAACTAC ACCTGCTCCA GGACCAATCA 2700
 GTGAAACCTG CTCGGAATTA AAGGCTTCTT CTGGGTGCTT GCTGAACAAC 2750
 TGAGCTCATG TCATGGGCAT GTGGTGTTT CTCTGTTGCC TGAAGAGGCC 2800
 ATTAAGTCA GTCGTGGTG AAGCATCTCT CTTCTAAAGG ATGTGTATTT 2850
 CCATAAATGC TTTCTGAGGA TCCGGTACAA AATGATTTCC CAAAGTTCTG 2900
 AAGTGCCCTG AGAACATGTG GGTCGGAGTG TTATAACAGA CTCCTCCCCC 2950
 GGGTCACCTT TTGCCTGGTC ATCCTGTTAG AGTACATCTT TGGAAATCCA 3000
 GGGTAATATT CTCCTTCAGA GATGCTCATT GTGTAACCTT GTGTAGGGAG 3050
 ATAGTCACCT TAAACAGCTC AAAGTAGCTA GCTAAAGGAG TAGCCTTAAA 3100
 TACCTAAAAG ATGACAGAAG CATAGCCCTT AACAAATCTT CAGCTTGCTT 3150
 CTCAGTATT CCCAATCATG AAAATCCCTT GCTATGCTTT TCCTACTAGA 3200
 AATGTTCTAG AATCGCTGA CGGTGGGTC AGAGGGCAGT CCGTATTTAG 3250
 GCCGTGAGCT TCCCATACTA CTGCAGGTCC AACTCCTGGC AACCGCGGGC 3300
 TCAAGGCAGG TCATTGGAAT CCACGTTTTG GCCACAGTAG TTGTAGGATT 3350
 GCTTTTCTGT ATCATAAATTT TAGAATGCTC TTAAAATCTT GAGGAAGAGT 3400
 TTTTATTTTT TATTTATTTT TGAGATGGAG TCTCTGTTGC CCAGGCTGCA 3450
 GTGCAGTGGT GCCATCTCAG CTCACTGCAA CCTCCACCTC CCAGGTTCAA 3500
 GCGATTCTCC TGCCTCAGCC ACCTGAGTAG CTGGGAGTAC AGGCATGTGG 3550
 CACCATGCCT GGCTAAATTT TGTAATTTTA ATAGAGTTGA GATTTACCCA 3600
 TGATGGTCAG GCTGGTCTCG AACTCCTGAC CTCGTGATCC GCCCGCCTCG 3650
 GCCCCCAGG GTGCTGGGAT TAACGGGTGT GAGCCACGGC GCCCAGCCCA 3700
 GGAAGAGTTT TTAAATTAGA GCTCTGTTTA ATTATACCAC TGGGAAATCA 3750
 TGGTTACGCT TCAGGCATAT TCTTCCCCAG AGTACTACTT ACATTTTAAA 3800
 TTTTCATTTTG TAAAGTTAAA TGTCAGCATT CCCTTTAAAA GTGTCCATTG 3850
 TTCTTTGAAA GTAGACGTTT CAGTCAATCT TTTCAAAACA GTGTTTGTGT 3900

FIGURE 17A

ACCTTTTGCC AAGCTGTGGG CATCGTGTGT GAGTACAGGG TGCTCAGCTC 3950
TTCCACCGTC ATTTTGAATT GTTCACATGG GTAATTGGTC ATGGAAATGA 4000
TCAGATTGAC CTTGATTGAC TGTCAAGGCAT GGCCTTGTTT CTAGTTTCAA 4050
TCTGTTCTCG TTCCTTGTAC CGGATTATTC TACTCCTGCA ATGAACCCCTG 4100
TTGACACCGG ATTTAGCTCT TGTCGGCCTT CGTGGGGAGC TGTTTGTGTT 4150
AATATGAGCT ACTGCATGTA ATTCTTAAAC TGGGCTTGTC ACATTGTATT 4200
GTAATTTTGT GATCTGTAAT GAAAGAATC TGTA CTGCAA GTAA AACCTA 4250
CTCCCCAAA ATGTGTGGCT TTGGGTCTGC ATTA AACGCT GTAGTCCATG 4300
TTCATGCC 4308

FIGURE 17B

MDMGNQHPISRLQEIQKEVKSVEQQVIGFSGLSDDKNYK KLERILTKQL 50
FEIDSVDTEG KGDQQARKRAAQETERLLK ELEQNANHPH RIEIQNIFEE 100
AQSLVREKIV PFYNGGNCVT DEFEEGIQDI ILRLTHVKTG GKISLRKARY 150
HTLTKICAVQ EIIEDCMKKQ PSLPLSEDAH PSVAKINFVM CEVNIKARGVL 200
IALLMGVNNN ETCRHLSCVL SGLIADLDAL DVCGRTEIRN YRREVVEDIN 250
KLLKYLDLEE EADTTKAFDL RQNHSLKIE KVLKRMREIK NELLOAQNPS 300
ELYLSSKTEL QGLIGQLDEV SLEKNPCIRE ARRAVIEVQ TLITYIDLKE 350
ALEKRKLFAC EEHPSHKAWW NVLGNLSEIQ GEVLSFDGNR TDKNYIRLEE 400
LLTKQLLALD AVDPQGEEKC KAARKQAVRL AQNILSYLDL KSDEWEY 447

[illegible]

FIGURE 18

